

© EPODOC / EPO

PN - JP2001350579 A 20011221
 TI - PORTABLE INFORMATION EQUIPMENT
 FI - G06F3/033&310Y ; G06F3/00&630
 PA - SEIKO EPSON CORP
 IN - KOYAMA FUMIO
 AP - JP20000170920 20000607
 PR - JP20000170920 20000607
 DT - I

© WPI / DERWENT

AN - 2002-110572 [15]
 TI - Portable information apparatus e.g. mobile telephone has pointing unit provided with operating section having central portion which is **pressed** to move pointing position on **display** unit along desired direction
 AB - JP2001350579 NOVELTY - A pointing unit (3) with a cylindrical operating section is provided to the side portion or front portion of an apparatus. The operating section slides along the direction (B-B') and **rotates** along the direction (A-A'). When the central portion of the operating section is **pressed**, a pointing position on a **display** unit (2) is moved in desired direction.
 - USE - Portable information apparatus e.g. mobile telephone, personal digital assistant (PDA).
 - ADVANTAGE - Designates pointing position on the **display** in different directions.
 - DESCRIPTION OF DRAWING(S) - The figure shows an external view of the portable information apparatus.
 - **Display** unit 2
 - Pointing unit 3
 - (Dwg.1/5)
 IW - PORTABLE INFORMATION APPARATUS MOBILE TELEPHONE POINT UNIT OPERATE SECTION
 CENTRAL PORTION **PRESS** MOVE POINT POSITION **DISPLAY** UNIT DIRECTION
 PN - JP2001350579 A 20011221 DW200215 G06F3/033 010pp
 IC - G06F3/033
 MC - T01-C02B1
 DC - T01
 PA - (SHIH) SEIKO EPSON CORP
 AP - JP20000170920 20000607
 PR - JP20000170920 20000607

© PAJ / JPO

PN - JP2001350579 A 20011221
 TI - PORTABLE INFORMATION EQUIPMENT
 AB - PROBLEM TO BE SOLVED: To specify a pointing position on a **display** as four right and left, and up and down directions, to actualize superior operability, and to prevent a pointing means from being an obstacle to the arrangement and size of the **display**, etc.
 - SOLUTION: An operation part 31 is provided at the flank part of an equipment main body 1 so that a user can hold the equipment main body 1 by one hand and operates it with his or her thumb while viewing the **display** 2. Pointing operation in the direction of an arrow x-x' on the **display** 2 is done by **rotating** the operation part 31 in the direction of an arrow A-A' and pointing operation in the direction of an arrow y-y' in the figure is done by sliding the operation part 31 in the direction of an arrow B-B'. A desired pointing position is determined by **pressing** a nearly center part of the operation part 31 in the inward direction (direction C) of the equipment main body 1 at the desired pointing position. The pointing operation in the direction of the arrow y-y' may be done by **pressing** end parts 31a and 31b of the operation part 31.
 I - G06F3/033
 PA - SEIKO EPSON CORP
 IN - KOYAMA FUMIO
 ABD - 20020804

ABV - 200204

AP - JP20000170920 20000607

BEST AVAILABLE COPY

